

# CHAPTER 6

## EZ GUIDES

- Beach Sanding
- Boardwalks & Platforms
- Construction, Filling, & Grading
- Dam Projects
- Docks
- Driveways & Parking Lots
- Maintenance Dredging
- Minor Bridges
- Minor Culverts
- Minor Fills in Wetlands
- Ponds or Lakes
- Seawalls
- Spring & Cluster Piles



## FOR GUIDANCE USE ONLY

### Beach Sanding as Fill

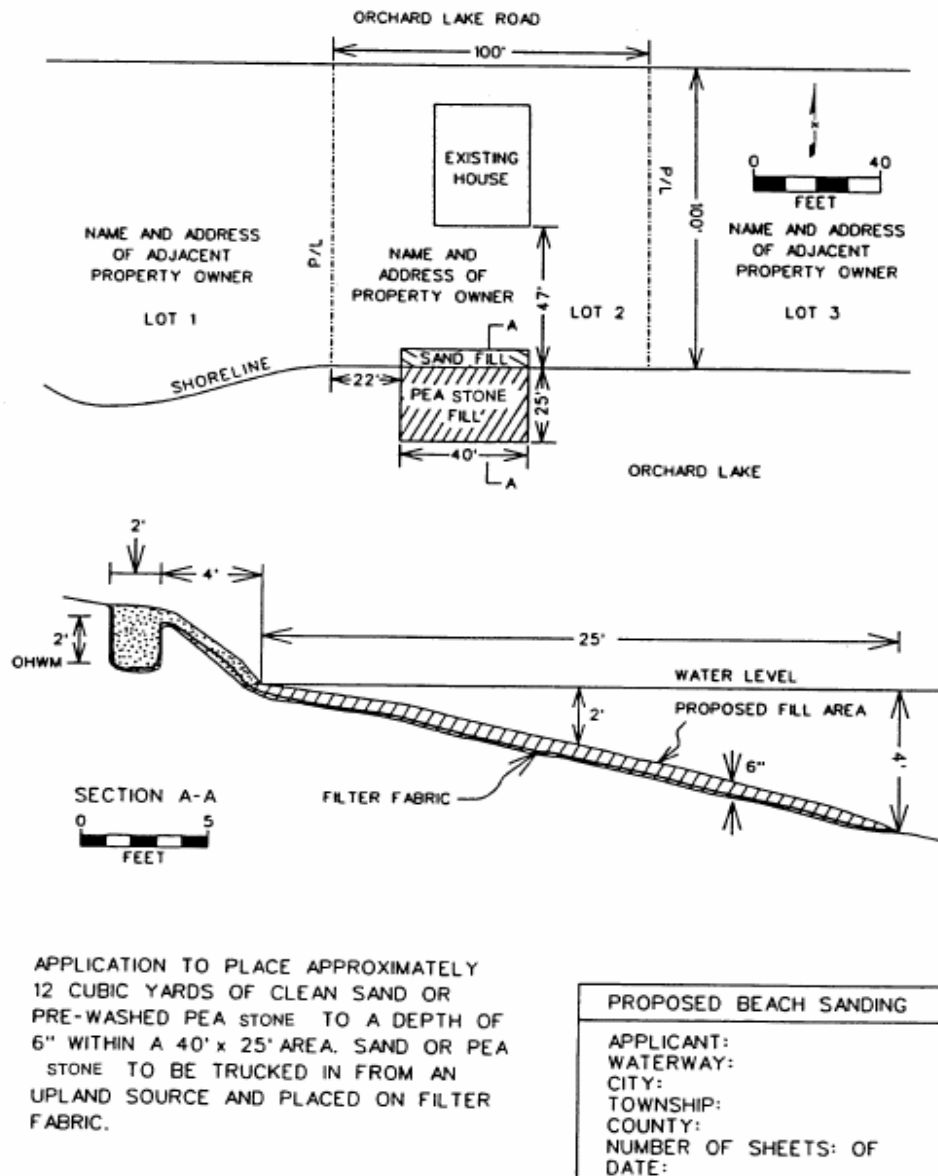
MDEQ  
LWMD  
MP/GP

Use this table to determine the criteria, fee, and requirements needed to complete your permit application

Regulatory Guidance	Fee	General Guidance	Application Requirements
301. Inland Lakes & Streams *R 281.816 Rule 6 (1)(d)	\$50	<p>In Inland Lakes &amp; Streams:</p> <ul style="list-style-type: none"><li>• Filling for creation &amp; improvement of swimming areas &amp; beaches</li><li>• Restoration of existing permitted fills</li><li>• Fills placed incidental to construction of other structures</li><li>• Fills of 300 cubic yards or less as one complete project</li><li>• And which meet both of the following:<ul style="list-style-type: none"><li>❖ Uses clean, nonpolluting material, free from debris, organic materials, &amp; waste metal products</li><li>❖ For improvement of swimming areas &amp; beaches, using clean sand or pea stone, with blanket depth 6 inches or less and placed in water 4 feet deep or less</li></ul></li><li>• Total filled area should not exceed 1600 square feet and no greater than one-half of the shore line lot width.</li><li>• Filter fabric and/or pea stone may be required</li></ul>	<ul style="list-style-type: none"><li>• Sections 1-9 &amp; 10A</li><li>• Others such as 10B, 10C, 10D, 12, 13, 20, &amp; 21 may apply</li><li>• Provide site specific project site plan &amp; cross section drawing</li><li>• Site location map</li><li>• All maps &amp; drawings must be reproducible</li><li>• Stake project location(s)</li><li>• Provide photos</li><li>• Refer to sample drawings on back or in Appendix B: 1, 5, 9, &amp; 11.</li></ul> <p>Additional drawings are available in the <i>JPA Training Manual</i> at <a href="http://www.michigan.gov/jointpermit">www.michigan.gov/jointpermit</a></p>
325. Great Lakes Submerged Lands *R 322.1014 Rule 13 (2)(e)	\$50	<p>In Great Lakes:</p> <ul style="list-style-type: none"><li>• Filling for restoration of existing permitted fills</li><li>• Fills placed incidental to construction of other structures</li><li>• Fills 300 cubic yards or less, as one complete project</li><li>• Uses clean, nonpolluting material, free from debris, organic material, &amp; waste metal products</li></ul> <p>Note: A conveyance may be required</p>	<ul style="list-style-type: none"><li>• Same as above</li></ul>

\*Project must represent the least damaging alternative to the regulated resource. This information is to be used solely as a guide to assist individuals in filling out the joint permit application. Note that not every project will fall into the above listed fee categories. If staff determines more information and/or a higher fee is needed before the application can be considered administratively complete, you will be notified and the file will be closed. Review of the application, up to 6 months from the closure date, will continue when all of the requested information is received.

## Sample Drawing 11



Complete **Sections 10A, 10B, 10C, and 12** if applicable to your project.

Provide **plan view** and **cross-section** site-specific drawings adequate for detailed review, include:

- ☐ Overall site plan showing existing lakes, streams, wetlands, *floodplains*, and other water features.
- ☐ Name of waterbodies, property boundaries, and neighboring property owner information.
- ☐ Dimensions of an existing or proposed house, dock, or other structures from the proposed sanding area and property boundaries.
- ☐ The maximum and average fill dimensions (ft) in both plan and *cross-section* views. Calculate fill volume (cu yd) by multiplying average (depth) x (width) x (length) in feet and dividing by 27.
- ☐ The observed water level, date of observation (M/D/Y) and datum, if used (NGVD 29 or local).
- ☐ The extent of *filter fabric*, if used, and how the *filter fabric* will be grounded.
- ☐ *Soil erosion and sedimentation control measures*.
- ☐ Source of clean sand or pre-washed gravel.



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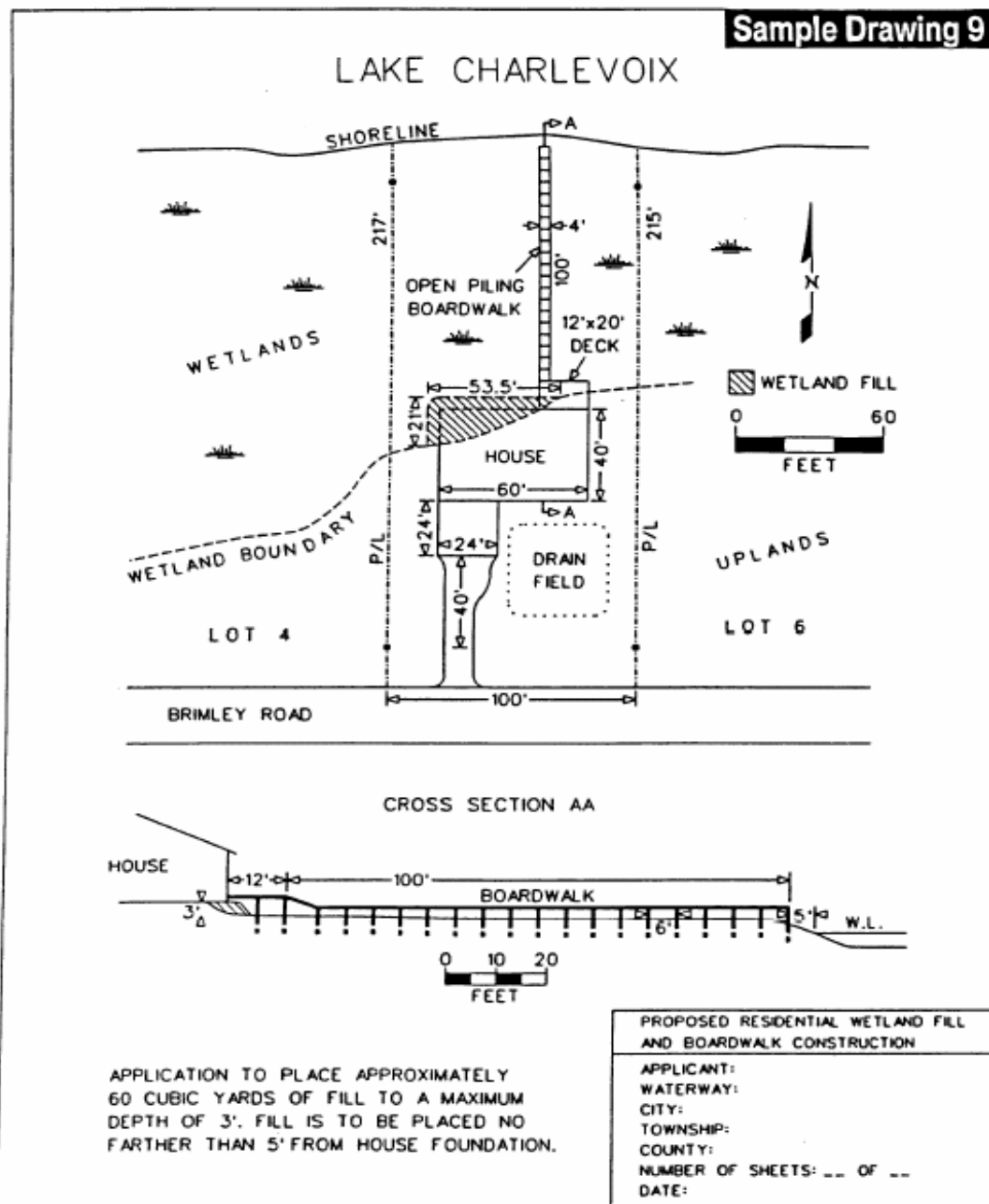
### Boardwalks, Walkways, Platforms, & Safety Fences

**MDEQ  
LWMD  
MP/GP**

Use this table to determine the criteria, fee, and requirements needed to complete your permit application

Regulatory Reference	Fee	General Guidance	Application Requirements
303. Wetlands Protection General Permit Category B	\$100	<p>*For wetlands not contiguous to state designated natural river or federal wild and scenic rivers...</p> <p>Boardwalk/Elevated Walkway in Wetland:</p> <ul style="list-style-type: none"> <li>• Open pile or floating on steel/timber posts 6 feet in width or less</li> <li>• Maximum proposed and existing length through wetlands of 500 feet</li> <li>• Widening allowed for passage of wheelchair at intervals of 150 feet</li> <li>• Does not include a dock (see Part 301/325)</li> </ul> <p>Walkway/Footpath in Wetlands</p> <ul style="list-style-type: none"> <li>• Only where boardwalks or elevated walkways are not feasible or practical</li> <li>• Filling 6 feet or less in base width with total length of 200 feet or less</li> <li>• Culverts required for free flow of surface water</li> </ul> <p>Platform in Wetlands:</p> <ul style="list-style-type: none"> <li>• Single open pile or floating platform 120 square feet or less of surface area,</li> <li>• Mounted on steel or timber posts</li> </ul> <p>Safety Fence in Wetlands:</p> <ul style="list-style-type: none"> <li>• Residential, open wire elevated above wetland on poles</li> <li>• Placed to prevent children, pets, etc. from entering wetland</li> <li>• Four (4) feet high and less than 150 feet in total length through wetland</li> </ul>	<ul style="list-style-type: none"> <li>• Sections 1-9, &amp; 10I, 12</li> <li>• Others such as 10A, 10B, 13, 15, 19, &amp; 20 may apply</li> <li>• Provide site specific project site plan &amp; cross section drawing</li> <li>• Site location map</li> <li>• Stake project location(s)</li> <li>• Provide photos</li> <li>• All maps &amp; drawings must be reproducible</li> <li>• Refer to sample drawings on back or in Appendix B: 1,5, 6, 8, 9, 10, 19, 20, 21</li> </ul> <p>Additional drawings 32, 33, &amp; 49 are available in the <i>JPA Training Manual</i> at <a href="http://www.michigan.gov/jointpermit">www.michigan.gov/jointpermit</a></p>
31. Water Resources Protection *R 323.1316 Rule 316(g) & 303. Wetlands Protection General Permit Category B	\$100	<p>Boardwalk in Floodplain:</p> <ul style="list-style-type: none"> <li>• Made of open pile construction</li> <li>• Located landward of the existing shoreline or along the existing shoreline</li> </ul> <p>Walkway or Footpath in Floodplain</p> <ul style="list-style-type: none"> <li>• Grade elevation change is less than 6 inches</li> </ul> <p>*Floodplains that have a watershed of two (2) square miles or more are regulated by MDEQ.            *Floodplain fill over 300 cubic yards requires compensating cut.</p>	<ul style="list-style-type: none"> <li>• See requirements above and Section 13</li> </ul>

# Sample Drawing 9



Complete Sections 10A, 10B, 10C, 12, 13, and 14 if applicable to your project.

Provide **plan view** and **cross-section** site-specific drawings adequate for detailed review, include:

- ☐ An overall site plan showing existing lakes, streams, wetlands, floodplains and other water features.
- ☐ Name of waterbodies, property boundaries, and neighboring property owner information.
- ☐ Site location plan that provides for minimum impact to the wetland.
- ☐ The dimensions for maximum depth and maximum extent of fill. Include dimensions from fixed objects and property boundaries to wetland fill area.
- ☐ The fill volume (cu yd) calculated by multiplying average (depth) x (width) x (length) in feet and dividing by 27.
- ☐ Soil erosion and sedimentation control measures.
- ☐ Observed water elevation, date of observation(M/D/Y).
- ☐ Datum (IGLD 85 or NGVD 29 on Section 10 Waters).



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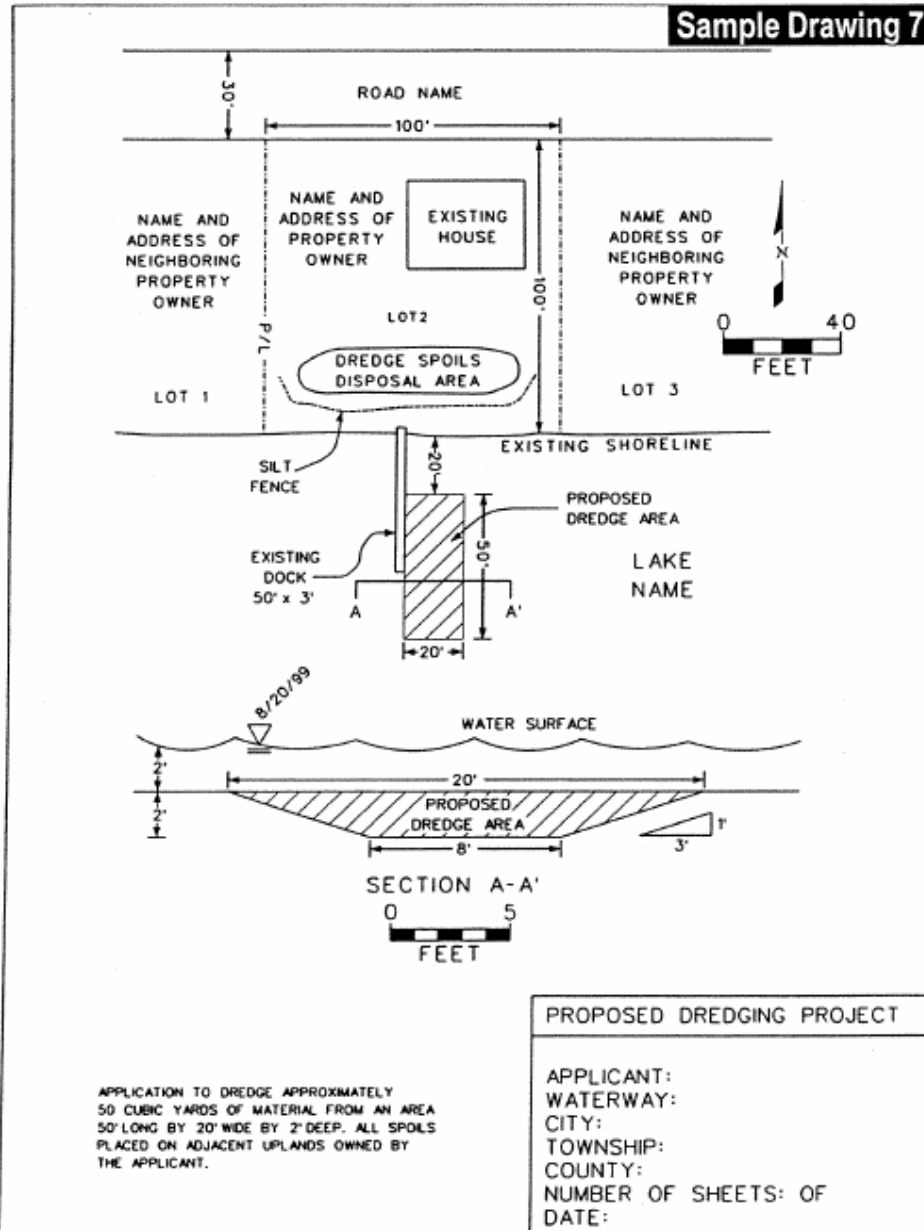
### Construction, Filling, or Grading Projects in Floodplains

Use this table to determine the criteria, fee, and requirements needed to complete your permit application

Regulatory Reference	Fee	General Guidance	Application Requirements
31. Water Resources Protection *R 323.1316 Rule 316 (a, b, c, & d)	\$100	<p>Construction, filling, or grading that is:</p> <ul style="list-style-type: none"><li>• Landward of floodway limit identified in delineation studies as listed by statute</li><li>• Landward of bed and banks of St. Mary's, St. Clair, &amp; Detroit rivers</li><li>• Landward of floodway limits determined by departments on stream reaches or in areas where floodways have NOT been defined</li></ul> <p>Construction/filling on individually owned subdivision lots confined to less than 5000 square feet and located within the following critical floodwater storage areas:</p> <ul style="list-style-type: none"><li>• Clinton river forks (Macomb County)</li><li>• Saginaw river storage area (Saginaw &amp; Bay Counties)</li><li>• Shiawassee flats (Saginaw County)</li><li>• Snake Creek (Midland County)</li><li>• Rush Creek (Ottawa County)</li><li>• Frank and Poet drain (Wayne County)</li></ul> <p>*Floodplains that have a watershed of two (2) square miles or more are regulated by the MDEQ. *Floodplain fill over 300 cubic yards requires compensating cut.</p>	<ul style="list-style-type: none"><li>• Sections 1-9, 10A, 10B, &amp; 13</li><li>• Others such as 11, 12 &amp; 15 may apply</li><li>• Provide site specific project site plan &amp; cross section drawing</li><li>• Site location map</li><li>• All maps &amp; drawings must be reproducible</li><li>• Stake project location(s)</li><li>• Provide photos</li><li>• Refer to sample drawings on back or in Appendix B: 1, 4, 5, 7, 9, 34, 35, 36, 46, 47, &amp; 48</li></ul> <p>Additional drawings are available in the <i>JPA Training Manual</i> at <a href="http://www.michigan.gov/jointpermit">www.michigan.gov/jointpermit</a></p>

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## Sample Drawing 7



- Complete **Sections 10B** and **Sections 10A, 12, 13, and 21** if applicable to your project. Provide **plan view** and **cross-section** site-specific drawings adequate for detailed review, include:
- ☐ Overall site plan showing existing lakes, streams, wetlands, *floodplains*, and other water features.
  - ☐ Name of waterbodies, property boundaries, and neighboring property owner information.
  - ☐ The dredge spoils disposal area location in an upland area above the 100-year floodplain. If spoils will be disposed of off-site, attach a detailed location. Sediment sampling may be required.
  - ☐ The location and dimensions of existing or proposed *docks* or *piers*.
  - ☐ The maximum and average dredge dimensions (ft) in both plan and cross-section views. Calculate dredge volume (cu yd) by multiplying average (depth) x (width) x (length) in feet and dividing by 27.
  - ☐ The observed water elevation and date of observation (M/D/Y).
  - ☐ Datum (NGVD 29 or IGLD 85 on *Section 10 Waters*).
  - ☐ Soil erosion and sedimentation control measures.





## FOR GUIDANCE USE ONLY

### Dam Projects

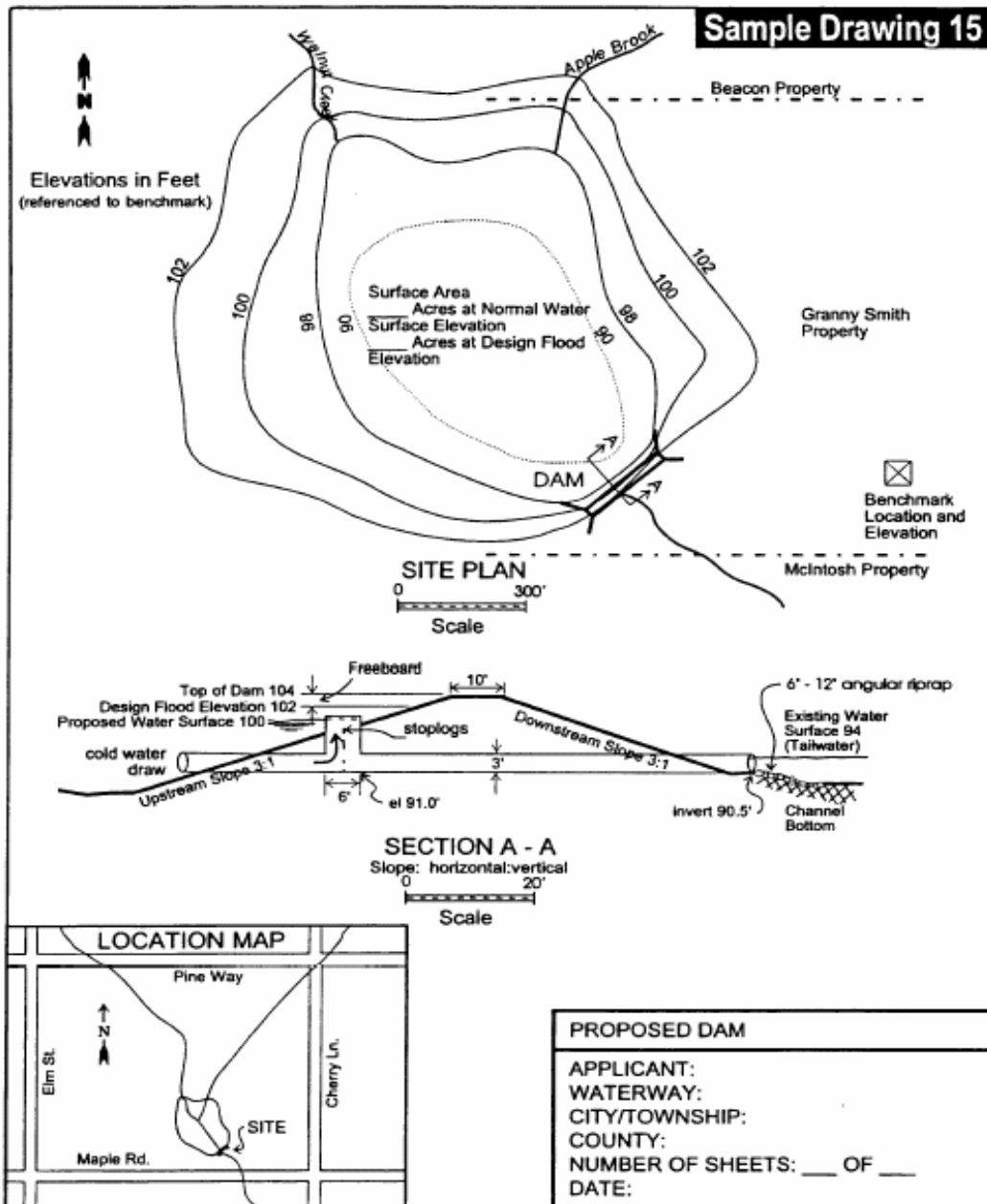
MDEQ  
LWMD  
MP/GP

Use this table to determine the criteria, fee, and requirements needed to complete your permit application

Regulatory Reference	Fee	General Criteria	Application Requirements
315. Dam Safety *R 281.1306 Rule 6 (4)	\$100	<ul style="list-style-type: none"><li>• Dam is both 6 feet or greater in height and impounds a minimum of 5 acres in surface area during design flood conditions</li><li>• Dam alteration or repair:<ul style="list-style-type: none"><li>❖ Dredging or filling of more than 25 cubic yards but less than 300 cubic yards total upon completion</li><li>❖ Dredge soils are of clean, nonpolluting material</li></ul></li><li>• Erosion protection measures on the dam or its inlet and outlet channels has:<ul style="list-style-type: none"><li>❖ Volume greater than 25 cubic yards but less than 300 cubic yards</li><li>❖ Surface area 10,000 square feet or less</li><li>❖ 2 cubic yards or less per lineal foot</li></ul></li><li>• Other minor repairs and alterations that have a minimal effect on the structural integrity of the dam</li><li>• Does not include dam removal or abandonment</li><li>• Also, Structural height: Specify the structural height of the existing and/or proposed structure. The structure height is the difference between the embankment top elevation and streambed elevation at the downstream embankment toe. If the dam is not across a stream channel or watercourse, the height is the difference between the embankment top elevation and the lowest elevation of the downstream toe of the dam.</li></ul>	<ul style="list-style-type: none"><li>• Sections 1-9 &amp; 17</li><li>• Others such as 10A, 10B, 10C, 12, 13, &amp; 15 may apply</li><li>• Provide site specific project site plan &amp; cross section drawing</li><li>• Site location map</li><li>• All maps &amp; drawings must be reproducible</li><li>• Stake project location(s)</li><li>• Provide photos</li><li>• Refer to sample drawings on back or in Appendix B 1 &amp; 15</li></ul> <p>Additional drawings are available in the <i>JPA Training Manual</i> at <a href="http://www.michigan.gov/jointpermit">www.michigan.gov/jointpermit</a></p>

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- Complete **Section 17** and **Sections 10A, 10B, 10C, 11, 12, 14, and 16** if applicable to your project. Provide **plan view** and **cross-section** site-specific drawings adequate for detailed review, include:
- ☐ Overall site plan showing existing lakes, streams, wetlands, floodplains, and other water features.
  - ☐ Name of waterbodies, property boundaries, and neighboring property owner information.
  - ☐ Highest known and observed water elevations (ft) and dates of observations (M/D/Y).
  - ☐ Datum used (IGLD 85, NGVD 29, or local) and a description of the reference point or benchmark.
  - ☐ Elevation of low point in top of embankment excluding spillways.
  - ☐ Soil erosion and sedimentation control measures.
- For a new dam include:**
- ☐ Embankment top elevation and streambed elevation at downstream embankment toe.
  - ☐ Structural height (embankment top elevation minus streambed elevation at downstream toe).
  - ☐ Embankment length, top width, bottom width, and upstream and downstream slopes (vert./horiz.).
  - ☐ Proposed normal pool and design flood elevations.



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**MDEQ  
LWMD  
MP/GP**

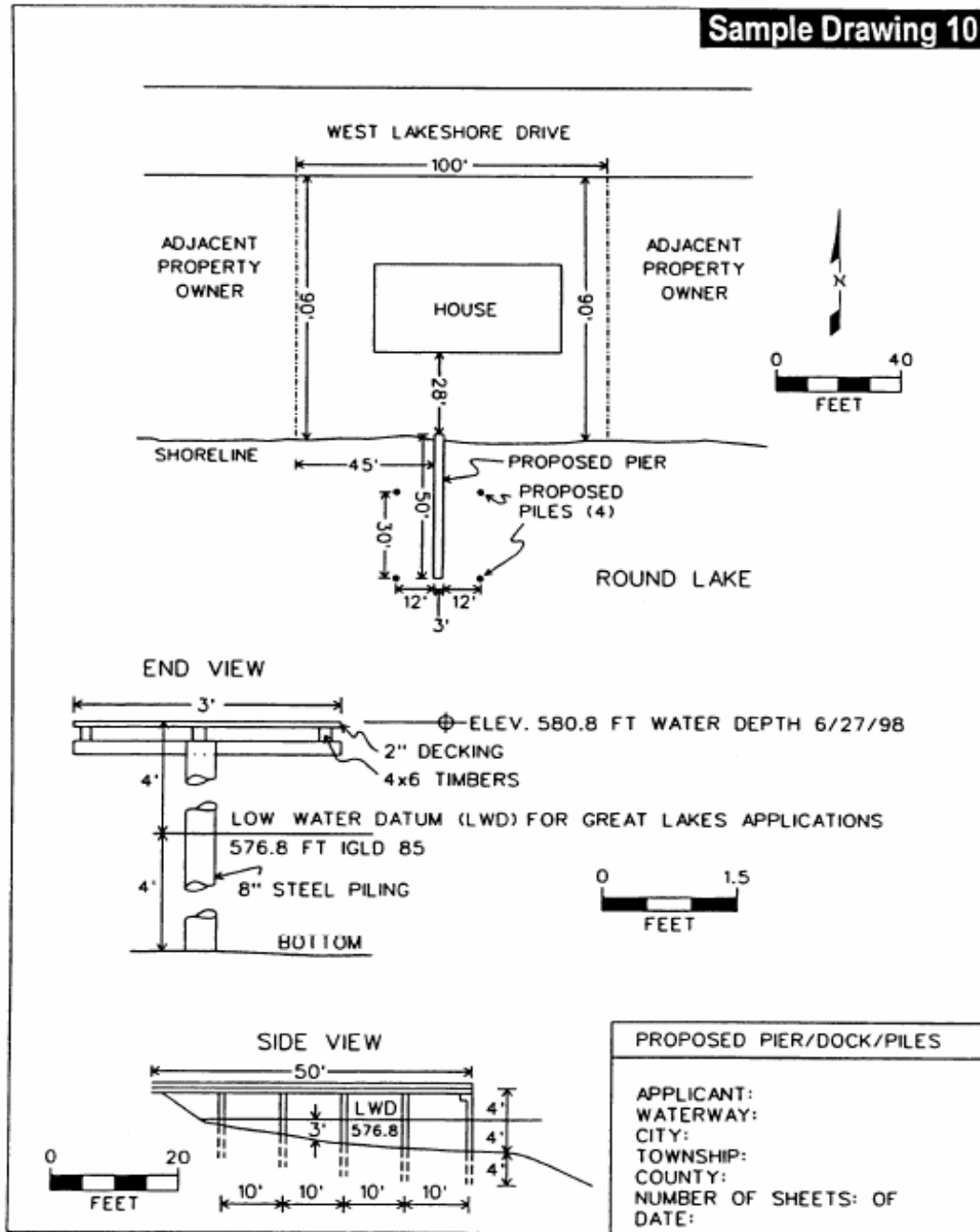
## Noncommercial Docks, Piers, & Boat Hoists/Ramps

Use this table to determine the criteria, fee, and requirements needed to complete your permit application

Regulatory Reference	Fee	General Guidance	Application Requirements
301. Inland Lakes & Streams *R 281.816 Rule 6 (1)(a)	\$50	<ul style="list-style-type: none"> <li>Single pier/dock/boat hoist with:               <ul style="list-style-type: none"> <li>❖ Width of dock no greater than 4 feet</li> <li>❖ Free littoral flow of water &amp; drift</li> <li>❖ Does not interfere with navigation</li> <li>❖ Clean, nonpolluting construction materials</li> <li>❖ No roofs or covers</li> </ul> </li> <li>Consists of only one dock or pier extending from property owner's water frontage (within riparian interest)</li> <li>Purpose is for single family, private usage, not rental unit, subdivision use, or road end</li> <li>Extension is of an existing pier/dock/boat hoist</li> <li>Does not include a deck (area wider than 4 feet) or boat house.</li> <li>Is not for "in place or kind" structural repair of a permitted dock, pier or boat hoist, and does not include a design change.</li> <li>A separate minor permit allowed for only one additional boat hoist</li> <li>Length similar in size to other structures in immediate vicinity</li> </ul>	<ul style="list-style-type: none"> <li>Sections 1-9, 10E (dock/pier), 10F (boat well), &amp; 10H (boat hoist)</li> <li>Others such as 10A, 10B, 12, 13, 15, 19, &amp; 20 may apply</li> <li>Provide site specific project site plan &amp; cross section drawing</li> <li>Site location map</li> <li>Stake project location(s)</li> <li>Provide photos</li> <li>All maps and drawings must be reproducible</li> <li>Refer to sample drawings on back or in Appendix B: 1, 10, 21</li> </ul> <p>Additional drawings 24, 25, 26, 27, 31, 39, 40, 41, 43, 44, &amp; 45 are available in the <i>JPA Training Manual</i> at <a href="http://www.michigan.gov/jointpermit">www.michigan.gov/jointpermit</a></p>
301. Inland Lakes & Streams *R 281.816 Rule 6 (u)	\$50	<p>Boat ramp:</p> <ul style="list-style-type: none"> <li>Designed for single-family use, private usage NOT rental unit, subdivision use, shared road end, or public use.</li> <li>Installation involves 10 cubic yards or less of dredge or fill, including riprap</li> <li>Dredge material is disposed upland</li> <li>Structural repair with dredge of permitted ramp</li> </ul>	<ul style="list-style-type: none"> <li>See requirements above Including 10A</li> </ul>
325. Great Lakes Submerged Lands *R 322.1014 (2)(a)	\$50	<p>Single, noncommercial pier/dock/boat hoist meet All of the following:</p> <ul style="list-style-type: none"> <li>Width of dock is no greater than 4 feet</li> <li>Free littoral flow of water &amp; drift</li> <li>Does not interfere with navigation</li> <li>No roofs or covers</li> <li>Length similar in size to other structures in immediate vicinity</li> <li>See guidance for Part 301 permit</li> </ul> <p>Note: a conveyance may be required.</p>	<ul style="list-style-type: none"> <li>See requirements above</li> </ul>

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## Sample Drawing 10



Complete Sections 10A, 10B, 12, 13, and 21 if applicable to your project.

Provide **plan view** and **cross-section** site-specific drawings adequate for detailed review, include:

- ☐ Name of waterbody, neighboring property owner information, property boundaries, and distances to adjacent property lines from proposed dock.
- ☐ Observed water elevation and date of observation (M/D/Y).
- ☐ Datum used (IGLD 85 or NGVD 29 on Section 10 Waters).
- ☐ Dimensions from fixed objects to property boundaries and the proposed pier, dock, or piles.
- ☐ Existing conditions along the shoreline for each adjacent parcel.
- ☐ Dimension of existing structures for each adjacent parcel
- ☐ Material used for construction of pier, dock, and or piles.



## FOR GUIDANCE USE ONLY

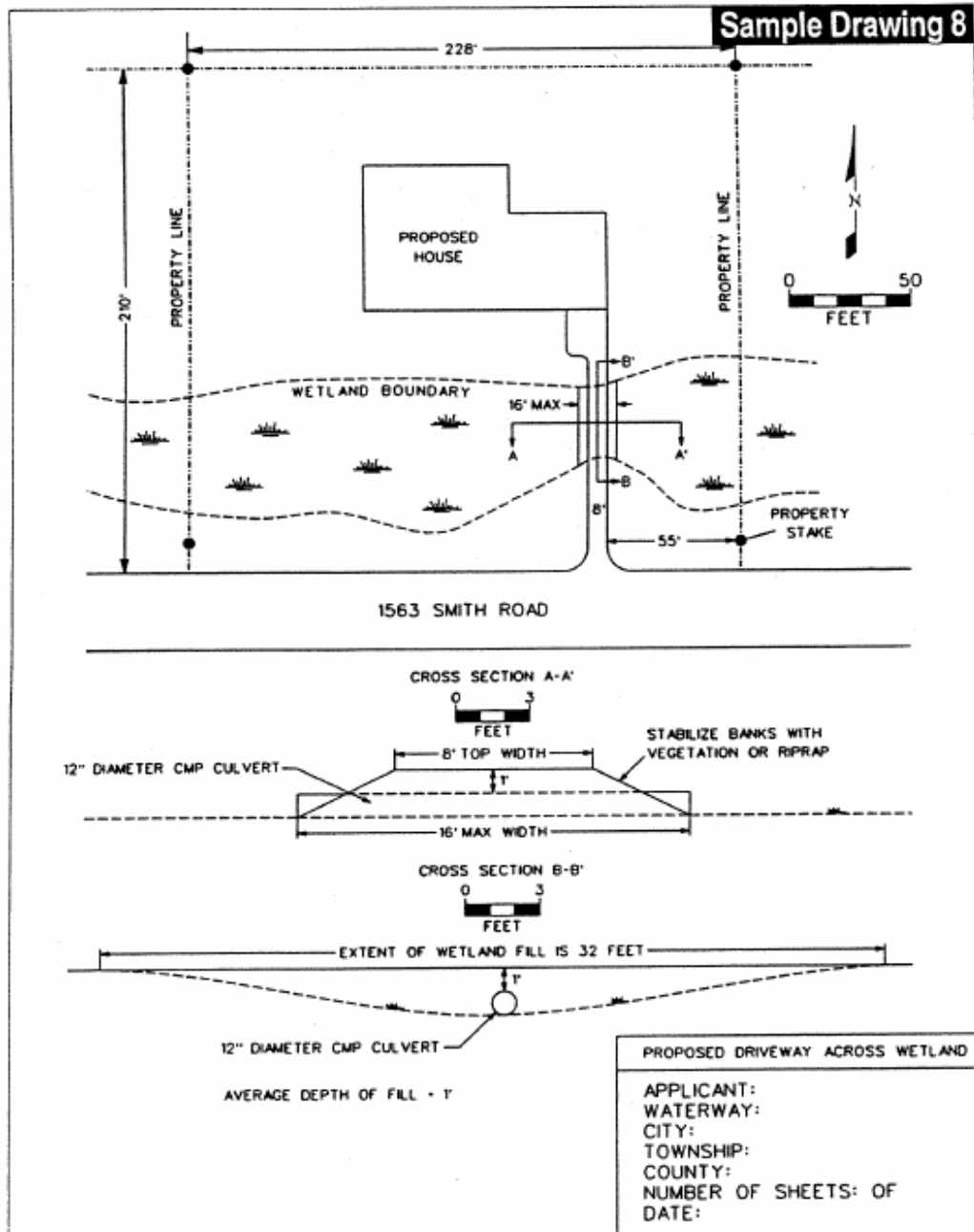
### Driveway & Parking Lot Construction

MDEQ  
LWMD  
MP/GP

Use this table to determine the criteria, fee, and requirements needed to complete your permit application

Regulatory Reference	Fee	General Guidance	Application Requirements
303. Wetlands Protection  *General Permit Category D	\$100	Driveways (new or expansion) in a wetland: <ul style="list-style-type: none"><li>• Built in least resource damaging place on property</li><li>• Crosses shortest wetland area or area of least impact</li><li>• Maximum of 16 feet base width</li><li>• Maximum total length of 200 linear feet</li><li>• If driveway is greater than 16 feet at public road intersection, must provide proof that this width is required by public transportation agency</li><li>• Upland property must be utilized to its fullest</li><li>• Driveway must terminate at a buildable upland site</li><li>• No ditches placed in wetland</li></ul> A permanent easement may be required if driveway is shared.	<ul style="list-style-type: none"><li>• Sections 1-9, 10A, 10B, 12</li><li>• Others such as 13, 15, &amp; 21 may apply</li><li>• Provide site specific project site plan &amp; cross section drawing</li><li>• Site location map</li><li>• ALL maps &amp; drawings must be reproducible</li><li>• Stake project location(s)</li><li>• Provide photos</li></ul> Refer to sample drawings on back or in Appendix B: 1, 5, 7, 8, 9, 19, 20, & 21 Additional drawings are available in the <i>JPA Training Manual</i> at <a href="http://www.michigan.gov/jointpermit">www.michigan.gov/jointpermit</a>
31. Water Resources Protection *R 323.1316 Rule 316 (i)	\$100	Parking Lot in a Floodplain: <ul style="list-style-type: none"><li>• Constructed at grade or resurfacing not more than 4 inches above existing surface</li><li>• Compensating cut provided if fill more than 300 cubic yards.</li></ul> *Floodplains that have a watershed of two (2) square miles or more are regulated by the MDEQ. *Floodplain fill over 300 cubic yards requires compensating cut.	<ul style="list-style-type: none"><li>• See requirements above and Section 13</li></ul>

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Complete **Sections 10A, 10B, 10C, 12, 13, and 14** if applicable to your project.

Provide **plan view** and **cross-section** site-specific drawings adequate for detailed review, include:

- ☐ An overall site plan showing existing lakes, streams, wetlands, *floodplains*, and other water features.
- ☐ Name of waterbodies, property boundaries, and neighboring property owner information.
- ☐ Choose the crossing location to provide for minimum impact to the wetland.
- ☐ The length, diameter, and type of culvert that is proposed.
- ☐ The volume of fill in cubic yards by multiplying average (depth) x (width) x (length) and dividing by 27.
- ☐ Method of bank stabilization at the culvert ends.
- ☐ The dimensions for maximum depth and maximum extent of fill. Include dimensions from fixed objects and property boundaries to wetland fill area.
- ☐ *Soil erosion and sedimentation control measures*, if within 500 feet of a lake or stream.

# FOR GUIDANCE USE ONLY



## Dredge for Maintenance of Previously Dredged Areas

**MDEQ  
LWMD  
MP/GP**

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Regulatory Reference	Fee	General Guidance	Application Requirements
301. Inland Lakes & Streams *R 281.816 Rule 6 (1)(e)  & 325. Great Lakes Submerged Lands *R 322.1014 (2)(f)	\$50	<ul style="list-style-type: none"> <li>For maintenance of previously dredged areas</li> <li>Dredge spoils are of clean, nonpolluting material</li> <li>Dredge spoils are removed to an upland site away from wetland and not in a floodplain</li> <li>Show dredge spoils location on your plan</li> <li>For maintenance dredge in an existing marina, see Part 301 or 325 marina requirements</li> <li>Provide written authorization from property owner if dredge spoils are going to an off-site location not owned by the applicant and that is not a licensed landfill. Provide mailing address for property owner and indicate the location for the spoils disposed</li> <li>Provide dredge spoils testing results is available</li> </ul> <p>Note: For Great Lakes projects a conveyance may be required.</p>	<ul style="list-style-type: none"> <li>Sections 1-9, &amp; 10B</li> <li>Others such as 12, 13, 15, 20, &amp; 21 may apply</li> <li>Provide site specific project site plan &amp; cross section drawing</li> <li>Site location map</li> <li>Stake project location(s)</li> <li>Provide photos</li> <li>All maps &amp; drawings must be reproducible</li> <li>Refer to sample drawings on back or in Appendix B 1, 7, 18, 21</li> </ul> <p>Additional drawing 29 is available in the <i>JPA Training Manual</i> at <a href="http://www.michigan.gov/jointpermit">www.michigan.gov/jointpermit</a></p>

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**Sample Drawing 18**

CROSS SECTION A-A'

EXISTING BOTTOM

W.L.

DREDGE AREA

18'

12'

6'

750'

150'

435'

Shoreline

MECHANICALLY DREDGE APPROX. 700 CU. YDS.

OFFSITE DISPOSAL OF SPOL MATERIAL MUST BE ON UPLAND

0 150 FEET

EXPANDED VIEW OF ACCESS CHANNEL TO BE DREDGED

0 1250 FEET

DEPTHS IN FEET

Pt. aux Chenes

NORTH CHANNEL

EXISTING MARINA

ACCESS CHANNEL TO BE DREDGED

**MAINTENANCE DREDGE CHANNEL**

APPLICANT:

WATERWAY:

CITY:

TOWNSHIP:

COUNTY:

NUMBER OF SHEETS: OF

DATE:

Provide **plan view** and **cross-section** site-specific drawings adequate for detailed review, include:

- ☐ Overall site plan showing existing lakes, streams, wetlands, *floodplains*, and other water features.
- ☐ Name of waterbodies, property boundaries, and neighboring property owner information.
- ☐ The dredge spoils disposal area location in an upland area above the *100-year floodplain*. If spoils will be disposed of off-site, attach a detailed location. Sediment testing may be required.
- ☐ The location and dimensions of existing or proposed *docks* or *piers*.
- ☐ Show maximum and average dredge dimensions (ft) in both plan and cross-section views. Calculate dredge volume in cubic yards by multiplying average (depth) x (width) x (length) in feet and dividing by 27.
- ☐ Observed water elevation, date of observation, and datum (IGLD 85 or NGVD 29 on Section 10 Waters).
- ☐ *Soil erosion and sedimentation control measures*.





# FOR GUIDANCE USE ONLY

## Minor Stream Crossings (vehicle and foot bridges)

**MDEQ  
LWMD  
MP/GP**

Use this table to determine the criteria, fee, and requirements needed to complete your permit application

Regulatory Reference	Fee	General Guidance	Application Requirements
301. Inland Lakes & Streams, *R 281.816 Rule 6 (1)(f)	\$50	<p>New, temporary, replacement, or removal of stream crossings (bridges):</p> <ol style="list-style-type: none"> <li>Structure type &amp; design of one of the following: <ol style="list-style-type: none"> <li>Clear span crossing with: <ul style="list-style-type: none"> <li>Bottom of lowest beam at or above top of the stream banks</li> <li>Approach fill sloping to natural ground elevations within 10 feet of the end of the bridge</li> </ul> </li> <li>New bridge must span the bottomland and: <ul style="list-style-type: none"> <li>a professional engineer certifies that the crossing size will pass a 100 year flood without causing harmful flood interference to adjacent properties.</li> <li>the certification must include hydraulic calculations</li> </ul> </li> <li>Replacement bridge must span the bottomland and: <ul style="list-style-type: none"> <li>a professional engineer certifies that the crossing hydraulic capacity is equal to or greater than existing hydraulic capacity</li> <li>there is no indication of harmful flood interference</li> <li>road elevation will not be higher than the bridge</li> <li>no removal of flood overflow structures.</li> </ul> </li> <li>New or replacement bridge is in an upland channel where consideration for passage of flow is not a significant design factor</li> <li>Widening the bridge on either side with total widening not more than 24 feet</li> </ol> </li> <li>Provides for sufficient passage of watercraft on navigable waters</li> <li>Total volume of compaction fill or rock riprap below ordinary high water mark is 200 cubic yards or less</li> <li>Bridge placed and designed to prevent stream erosion</li> </ol>	<ul style="list-style-type: none"> <li>Sections 1-9, &amp; 14</li> <li>Others such as 10A, 10B, 12, 13, 20, &amp; 21 may apply</li> <li>Site location map</li> <li>Provide site specific project site plan &amp; cross section drawing</li> <li>All maps &amp; drawings must be reproducible</li> <li>Stake project location(s)</li> <li>Provide photos</li> <li>Refer to sample drawings on back or in Appendix B: 1&amp; 14</li> </ul> <p>Additional drawings are available in the <i>JPA Training Manual</i> at <a href="http://www.michigan.gov/jointpermit">www.michigan.gov/jointpermit</a></p>
31. Water Resources Protection *R 323.1316 Rule 316 (e)	\$100	<p>A clear span crossing in a floodplain with:</p> <ul style="list-style-type: none"> <li>bottom of lowest beam is at/above ground on either bank</li> <li>approach fill sloping to natural ground elevations within 10 feet on either end of the crossing</li> </ul> <p>*Floodplains that have a watershed of two (2) square miles or more are regulated by the MDEQ. *Floodplain fill that has compensating cut over 300 cubic yards requires compensating cut.</p>	<ul style="list-style-type: none"> <li>Same as above and Section 13</li> </ul>

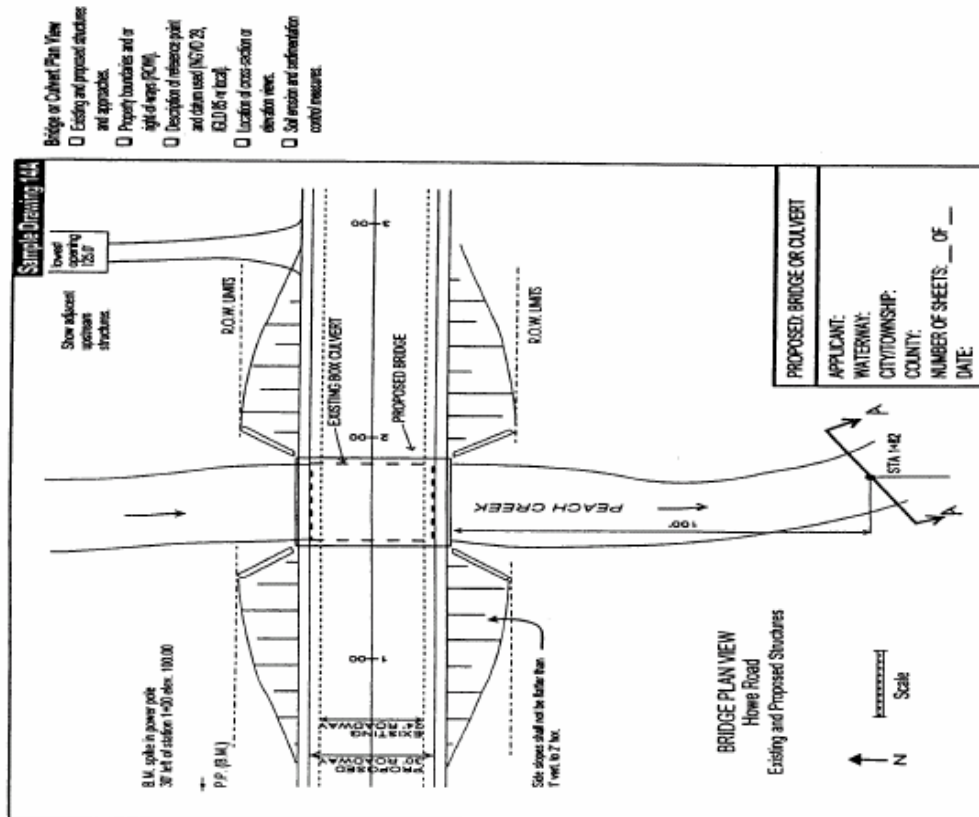
# PROPOSED BRIDGES AND CULVERTS:

Complete Sections 14 and Sections 10A, 10B, 10C, 11, 12, and 13.7 applicable to your project.

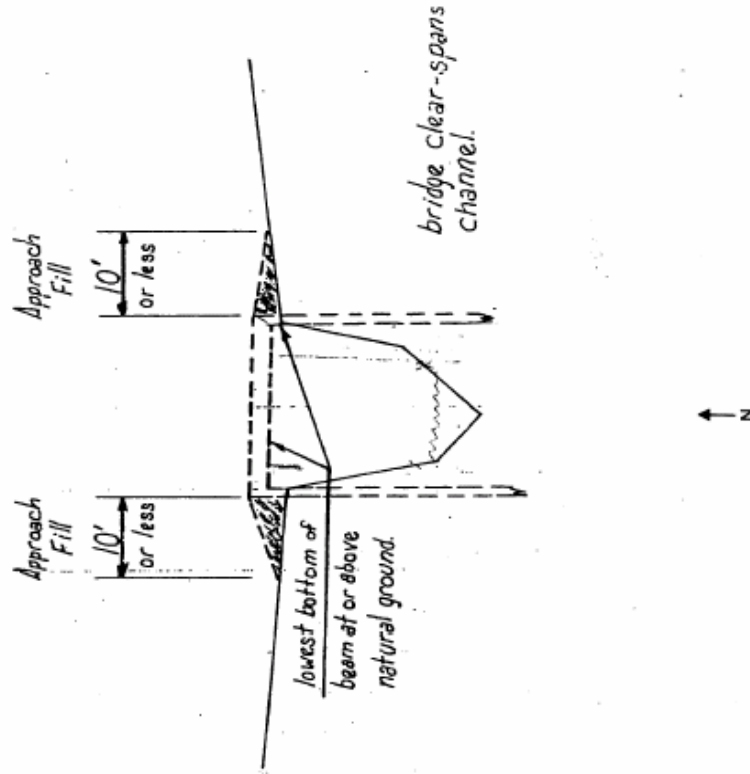
☐ Provide an aerial site plan showing existing dikes, streams, wetlands, and other water features. Include name of waterbody, property boundaries, and neighboring property owner information.

☐ Provide detailed site specific drawings of existing and proposed Plan View (Sample Drawing 14A), Elevation View (Sample Drawing 14B), Section and Plan/Profile Cross-Section (Sample Drawing 14C), and Stream Profile (Sample Drawing 14D) adequate for detailed review.

☐ If your project includes floodplain fill complete Section 13 and include a site specific drawing (See Sample Drawing 5).



## Minor Project (bridge)





# FOR GUIDANCE USE ONLY

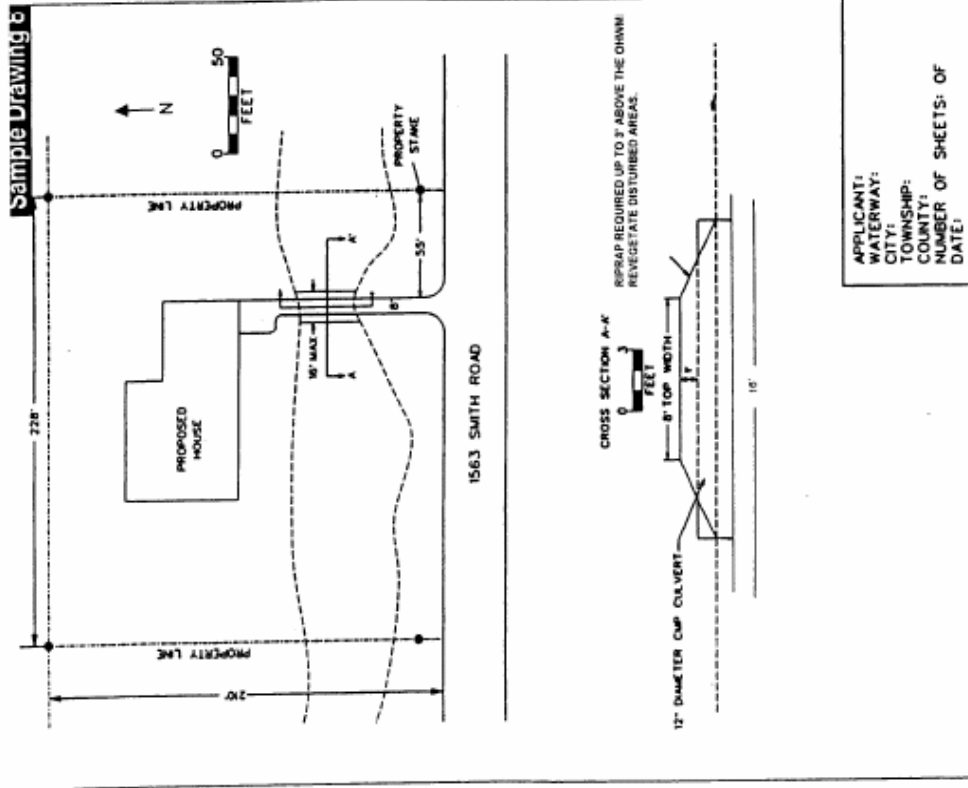
## Minor Culverts



Use this table to determine the criteria, fee, and requirements needed to complete your permit application

Regulatory Reference	Fee	General Guidance	Application Requirements
301. Inland Lakes & Streams *R. 281.816 Rule 6 (1)(f)	\$100	<p>New, temporary, replacement, or removal of single culvert:</p> <p>5. Structure consists of type (concrete, metal , wood) and design of one of the following:</p> <ul style="list-style-type: none"> <li>a) Effective waterway opening that equals or exceeds cross-sectional area of channel with: <ul style="list-style-type: none"> <li>✧ fill over culvert not more than 1.5 feet.</li> <li>✧ approach fill slopes to the natural ground level 10 feet on either side of culvert</li> <li>✧ culvert bottom shall be properly recessed below channel bottom</li> </ul> </li> <li>b) New culvert must span the bottomland and: <ul style="list-style-type: none"> <li>✧ a professional engineer certifies that the crossing size will pass a 100 year flood without causing harmful flood interference to adjacent properties.</li> <li>✧ the certification must include hydraulic calculations</li> </ul> </li> <li>c) Replacement culvert must span the bottomland and: <ul style="list-style-type: none"> <li>✧ the agent or owner certifies that the crossing hydraulic capacity is equal to or greater than existing hydraulic capacity</li> <li>✧ there is no indication of harmful flood interference</li> <li>✧ road elevation will not be higher than the culvert</li> <li>✧ no removal of flood overflow structures.</li> </ul> </li> <li>d) New or replacement culvert is in an upland channel where consideration for passage of flow is not a significant design factor</li> <li>e) Extension of an existing culvert with total length up to 24 feet</li> </ul> <p>6. Provides for sufficient passage of watercraft on navigable waters</p> <p>7. Total volume of compaction fill or rock riprap below ordinary high water mark is 200 cubic yards or less</p> <p>8. Culvert must be placed and designed to prevent stream erosion and down cutting of stream bed</p>	<ul style="list-style-type: none"> <li>• Sections 1-9, &amp; 14</li> <li>• Others such as 10A, 10B, 12, 13, 15, &amp; 21 may apply</li> <li>• Site location map</li> <li>• Provide site specific project site plan &amp; cross section drawings</li> <li>• All maps must be reproducible</li> <li>• Stake project location(s)</li> <li>• Provide photos</li> </ul> <p>Refer to sample drawings on back or in Appendix B: 1, 5, 7, &amp; 14 Additional drawings are available in the <i>JPA Training Manual</i> at <a href="http://www.michigan.gov/join_tpermit">www.michigan.gov/join_tpermit</a></p>
31. Water Resources Protection *R 323.1316 Rule (f)	\$100	<p>Culvert in Floodplain with:</p> <ol style="list-style-type: none"> <li>1. Effective waterway opening no less than the cross-sectional area of the channel, with fill over culvert not more than 1.5 feet</li> <li>2. Approach fill that slopes to natural ground elevations within 10 feet of the culvert ends</li> </ol> <p>*Floodplains that have a watershed of two (2) square miles or more are regulated by the MDEQ. *Floodplain fill over 300 cubic yards requires compensating cut.</p>	<ul style="list-style-type: none"> <li>• Same as above and Section 13</li> </ul>

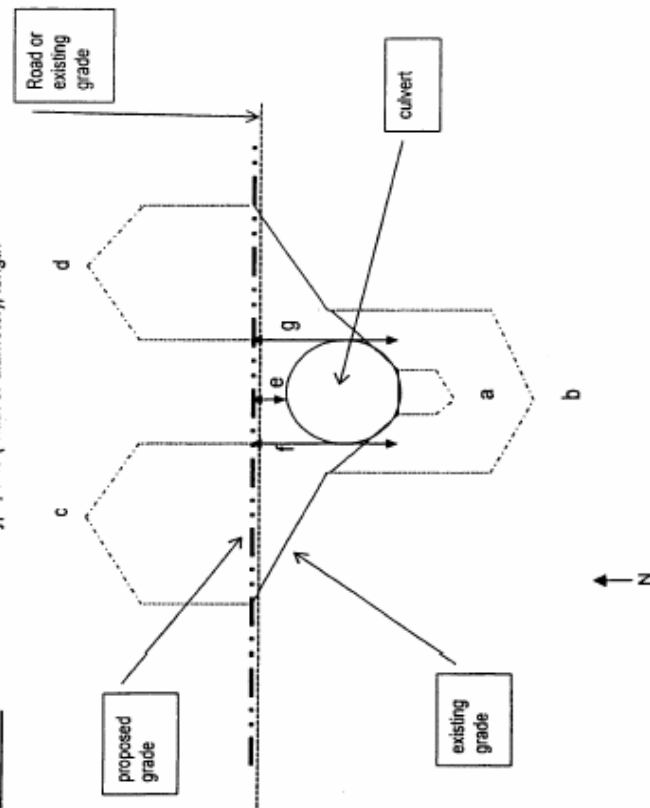
# Sample Drawing B



- Complete Sections 10A, 10B, 10C, 12, 13, and 14 if applicable to your project.
- Provide **plan view** and **cross-section** site-specific drawings adequate for detailed review, include:
- ☐ An overall site plan showing existing lakes, streams, wetlands, floodplains, and other water features.
  - ☐ Name of waterbodies, property boundaries, and neighboring property owner information.
  - ☐ Choose the crossing location to provide for minimum impact to the wetland.
  - ☐ The length, diameter, and type of culvert that is proposed.
  - ☐ The volume of fill in cubic yards by multiplying average (depth) x (width) x (length) and dividing by 27.
  - ☐ Method of bank stabilization at the culvert ends.
  - ☐ The dimensions for maximum depth and maximum extent of fill. Include dimensions from fixed objects and property boundaries to wetland fill area.
  - ☐ Soil erosion and sedimentation control measures, if within 500 feet of a lake or stream.

## Generic culvert cross-section information

- \_\_\_\_\_ a. width of stream bottom
- \_\_\_\_\_ b. width between the stream banks, top of bank to top of bank
- \_\_\_\_\_ c. length of fill area from existing ground to edge of culvert on one side of the culvert (approach slope fill from existing grade to proposed culvert)
- \_\_\_\_\_ d. length of fill area from existing ground to edge of culvert on the other side of the culvert (approach slope fill from existing grade to proposed culvert)
- \_\_\_\_\_ e. depth of fill above the center of the culvert
- \_\_\_\_\_ f. depth of fill from top of proposed grade to bottom of stream on one side of the culvert
- \_\_\_\_\_ g. depth of fill from top of proposed grade to bottom of stream on the other side of the culvert
- \_\_\_\_\_ h. depth of water and date measured
- \_\_\_\_\_ i. culvert information: type, size (width or diameter), length



# FOR GUIDANCE USE ONLY



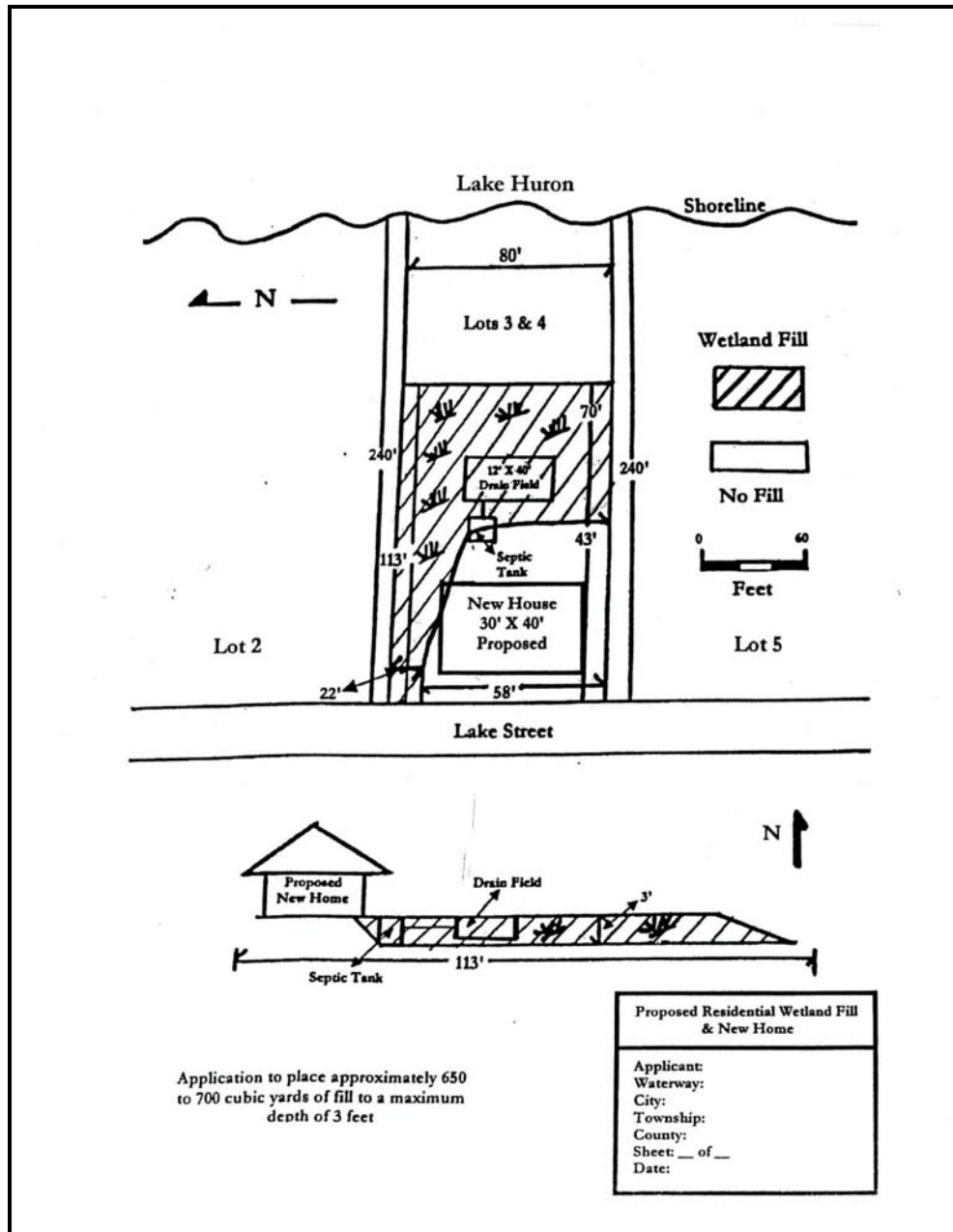
## Minor Fills for Construction or Expansion of Single Family Homes in Wetlands

**MDEQ  
LWMD  
MP/GP**

Use this table to determine the criteria, fee, and requirements needed to complete your permit application

Regulatory Reference	Fee	General Guidance	Application Requirements
303. Wetlands Protection  General Permit Category Q	\$100	<p>Construction or expansion of a Single Family Residence, must meet all of the following:</p> <ul style="list-style-type: none"> <li>Ownership of land has been maintained by immediate family since Oct. 1, 1980 <ul style="list-style-type: none"> <li>❖ <b>This minor fill permit can be used only once on land owned prior to Oct. 1, 1980; (1 permit per family)</b></li> <li>❖ This minor fill permit cannot be used in conjunction with the general driveway application</li> </ul> </li> <li>Total fill area is one-fourth (¼) acre or less for all phases of residential construction including construction for driveways or septic system</li> <li>Any associated garage or small storage shed shall not exceed 100 square feet</li> <li>Fill not placed in any part of wetland that that is inundated with water and that serves at any time as a habitat for fish and or wildlife</li> <li>Upland property is utilized to its fullest</li> <li>Proposed fill is least resource damaging area on property</li> <li>Minimization of on- and off-site impacts</li> <li>Use of septic systems that pump back to uplands</li> <li>Filled area around foundation is 15 feet or less from edge of foundation to toe of slope</li> <li>Fill slopes no flatter than 1 vertical to 4 horizontal</li> <li>No extra fill for landscaping/ recreation</li> <li>Does not include fill for lawn and or landscaping</li> </ul>	<ul style="list-style-type: none"> <li>Sections 1-9, &amp; 10A, 12</li> <li>Others such as 10B, 11, 13, 15, 20, &amp; 21 may apply</li> <li>Provide site specific site plan &amp; cross section drawing</li> <li>Site location map</li> <li>All maps &amp; drawings must be reproducible</li> <li>Stake project location(s)</li> <li>Provide photos</li> <li>Refer to sample drawings on back or in Appendix B: 1, 5, 9, 19, 20</li> </ul> <p>Additional drawings 34 &amp; 35 are available in the <i>JPA Training Manual</i> at <a href="http://www.michigan.gov/jointpermit">www.michigan.gov/jointpermit</a></p>

\*Project must represent the least damaging alternative to the regulated resource. This information is to be used solely as a guide to assist individuals in filling out the joint permit application. Note that not every project will fall into the above listed fee categories. If staff determines more information and/or a higher fee is needed before the application can be considered administratively complete, you will be notified and the file will be closed. Review of the application, up to 6 months from the closure date, will continue when all of the requested information is received.



Complete **Sections 10A, 10B, 10C, 12, 13, and 14** if applicable to your project.

Provide **plan view** and **cross-section** site-specific drawings adequate for detailed review, include:

- ☐ An overall site plan showing existing lakes, streams, wetlands, *floodplains* and other water features.
- ☐ Name of waterbodies, property boundaries, and neighboring property owner information.
- ☐ Site location plan that provides for minimum impact to the wetland.
- ☐ The dimensions for maximum depth and maximum extent of fill. Include dimensions from fixed objects and property boundaries to wetland fill area.
- ☐ The fill volume (cu yd) calculated by multiplying average (depth) x (width) x (length) in feet and dividing by 27.
- ☐ Soil erosion and sedimentation control measures.
- ☐ Observed water elevation, date of observation (M/D/Y).
- ☐ Datum (IGLD 85 or NGVD 29 on *Section 10 Waters*).





## FOR GUIDANCE USE ONLY

### Building or Expanding a Pond or Lake

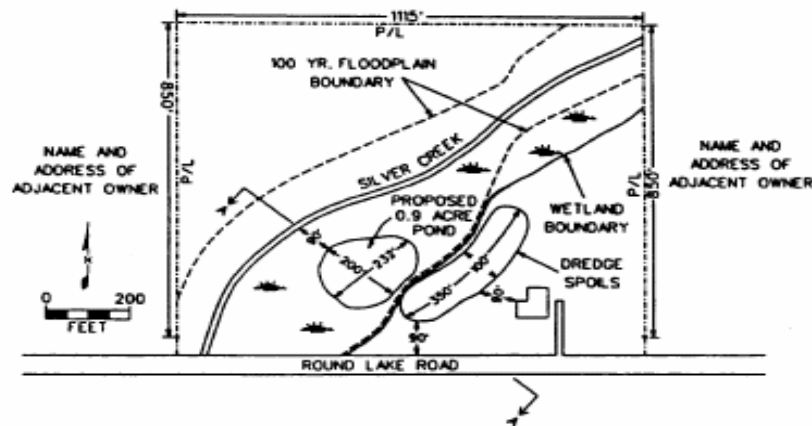
MDEQ  
LWMD  
MP/GP

Use this table to determine the criteria, fee, and requirements needed to complete your permit application

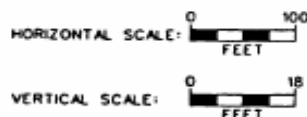
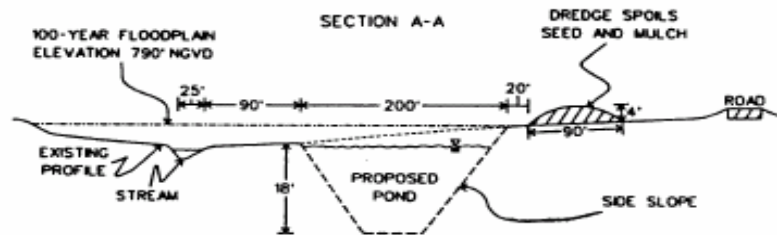
Regulatory Reference	Fee	General Guidance	Application Requirements
All parts: 301, 31, & 33		<b>All dredge/excavation projects:</b> <ul style="list-style-type: none"><li>• Dredge soils (debris, vegetation, tree stumps) are placed on an upland site</li><li>• Spoils are stabilized to prevent erosion into public waters or wetlands</li><li>• Spoils will be placed to prevent flooding of neighboring properties</li><li>• Location for dredge spoils disposal is indicated</li></ul>	
301. Inland Lakes & Streams *R 281.816 Rule 6 (1)(h)	\$50	Dredge for construction or enlargement of ponds, ditches, and similar artificial waterways within 500 feet of a wetland or inland lake or stream <ul style="list-style-type: none"><li>• Surface area is smaller than 5 acres in size</li><li>• No direct connection to existing inland lake or stream or wetland</li></ul> <p>✧ Dredge for maintenance of previously dredged areas OR ✧ New dredge of 300 cubic yards or less as one complete project</p>	<ul style="list-style-type: none"><li>• Sections 1-9, 10B, &amp; 11</li><li>• Others such as 10A, 10B, 12, 13, &amp; 15 may apply</li><li>• Provide site specific project site plan &amp; cross section drawing</li><li>• Site location map</li><li>• All maps must be reproducible</li><li>• Provide photos</li><li>• Stake project location(s)</li><li>• Refer to sample drawings on back or in Appendix B: 1, 4, 7.</li></ul> <p>Additional drawings 29, &amp; 46 are available at <a href="http://www.michigan.gov/jointpermit">www.michigan.gov/jointpermit</a></p>
31. Water Resources Protection *R 323.1316 Rule 316 (h)	\$100	Ponds in Floodplains: <ul style="list-style-type: none"><li>• Excavated materials are placed landward of the floodway and out of the wetland</li></ul> <p>Note: Floodplains that have a watershed of two (2) square miles or more are regulated by the MDEQ.</p>	<ul style="list-style-type: none"><li>• See requirements above and Section 13</li></ul>
303. Wetlands Protection General Permit Category A	\$100	Small Ponds and Shallow Water: <ul style="list-style-type: none"><li>• Surface area is smaller than 1 acre in size</li><li>• No direct connection to existing waterbody</li></ul>	<ul style="list-style-type: none"><li>• See requirements above and Section 12</li></ul>



## Sample Drawing 4



APPROXIMATELY 5000 CU. YD. WILL BE EXCAVATED AND THE DREDGE SPOILS WILL BE PLACED ON-SITE ABOVE THE 100 YR. FLOODPLAIN ELEVATION AND UPLAND OF REGULATED WETLANDS.



### POND CONSTRUCTION

APPLICANT:  
WATERWAY:  
CITY:  
TOWNSHIP:  
COUNTY:  
NUMBER OF SHEETS: OF  
DATE:

- Complete **Section 11** and **Sections 10A, 10B, 10C, 12, and 13** if applicable to your project. Provide **plan view** and **cross-section** site-specific drawings adequate for detailed review, include:
- ☐ Overall site plan showing existing lakes, streams, wetlands, and other water features.
  - ☐ Waterbody names, property boundaries and corners, and neighboring property owner information. Please include property owner information for upstream and downstream adjacent parcels.
  - ☐ Existing and proposed conditions in the area of proposed pond.
  - ☐ Maximum depth, maximum and typical side slopes at edge of pond (vertical/horizontal), pond surface area, and dimensions and distances of proposed pond and spoils disposal area from fixed objects and property boundaries. Spoils should be placed above the 100-year floodplain elevation and upland of regulated wetlands. If off-site disposal is planned, please provide a detailed description of the location.
  - ☐ Soil erosion and sedimentation control measures.
  - ☐ Water levels and dates of observation in nearby surface water and at proposed pond location.
  - ☐ Datum (NGVD 29, IGLD 85 or local) and dredge volume (cu yd).
  - ☐ If pond will have a surface water outlet show on plan and cross-section drawings.



## FOR GUIDANCE USE ONLY

### Seawalls and Shore Protection

MDEQ  
LWMD  
MP/GP

Use this table to determine the criteria, fee, and requirements needed to complete your permit application

Regulatory Reference	Fee	General Guidance	Application Requirements
301. Inland Lakes & Streams *R 281.816 Rule 6 (1)(c)  & 325. Great Lakes Submerged Lands *R 322.1014 (2)(d)	\$50	<p>Seawalls/bulkheads:</p> <ul style="list-style-type: none"><li>• Site must have signs of visible erosion and must be the least disruptive alternative</li><li>• Use of clean, nonpolluting construction materials; free of waste metal products, debris or organic materials.</li><li>• 300 feet or less in length and located where similar structures exist</li><li>• If longer than 200 feet, adjoining riparian property owners are notified to provide opportunity for comment</li><li>• Seawall or fill is not to be placed in wetland area</li></ul> <p>In Inland Lakes &amp; Streams:</p> <ul style="list-style-type: none"><li>• Placement of backfill or other fill does not exceed an average of 2 cubic yards per running foot along shoreline up to a maximum of 300 cubic yards</li></ul> <p>In Great Lakes:</p> <ul style="list-style-type: none"><li>• Placement of backfill does not exceed average of 3 cubic yards per running foot along shoreline up to a maximum of 300 cubic yards</li></ul> <p>Note: a conveyance may be required.</p>	<ul style="list-style-type: none"><li>• Sections 1-9, 10C, &amp; 10D</li><li>• Others such as 10A, 10B, 12, 13, 15, 19, &amp; 20 may apply</li><li>• Provide site specific site plan &amp; cross section drawing</li><li>• Site location map</li><li>• Stake project location(s)</li><li>• Provide photos</li><li>• All maps and drawings must be reproducible</li><li>• Refer to sample drawings on back or in Appendix B: 1, 2, 3, &amp; 17.</li></ul> <p>Additional drawings 42, 47, &amp; 48 are available in the <i>JPA Training Manual</i> at <a href="http://www.michigan.gov/jointpermit">www.michigan.gov/jointpermit</a></p>

\*Project must represent the least damaging alternative to the regulated resource. This information is to be used solely as a guide to assist individuals in filling out the joint permit application. Note that not every project will fall into the above listed fee categories. If staff determines more information and/or a higher fee is needed before the application can be considered administratively complete, you will be notified and the file will be closed. Review of the application, up to 6 months from the closure date, will continue when all of the requested information is received.

**Sample Drawing 3**

CUTLER ROAD

DELL BROOKS  
1848 CUTLER RD.

EXISTING BULKHEAD

PROPOSED BULKHEAD  
54' LONG

BASS LAKE

50'

100'

3' MAX. FILL

FRANK AMMOND  
1852 CUTLER RD.

EXISTING BULKHEAD

PROPOSED STONE

0 80  
FEET

**SECTION A-A**

EXISTING GRADE

TOP ELEVATION OF SEAWALL

WATER LEVEL 7/4/99

LAKE BED

FILTER FABRIC

INTERLOCKING STEEL SHEET PILES 18' LONG

TWICE HEIGHT ABOVE GROUND

16' TIEBACK

STEEL ANCHOR PILE

0 5  
FEET

PROPOSED STEEL SEAWALL WILL TIE IN FLUSH WITH EXISTING NEIGHBORING SEAWALLS.

APPROX. 7 CUBIC YARDS OF CLEAN SAND AND GRAVEL FROM AN OFF-SITE UPLAND SOURCE WILL BE PLACED AS BACKFILL BEHIND BULKHEAD.

APPROX. 7 CUBIC YARDS OF 6 - 12" DIA. STONE AT BASE OF BULKHEAD.

BULKHEAD/SEAWALL
APPLICANT:
WATERWAY:
CITY:
TOWNSHIP:
COUNTY:
NUMBER OF SHEETS: OF
DATE:

Provide **plan view** and **cross-section** site-specific drawings adequate for detailed review, include:

- EZ Guides



## FOR GUIDANCE USE ONLY

### Spring Piles or Pile Clusters

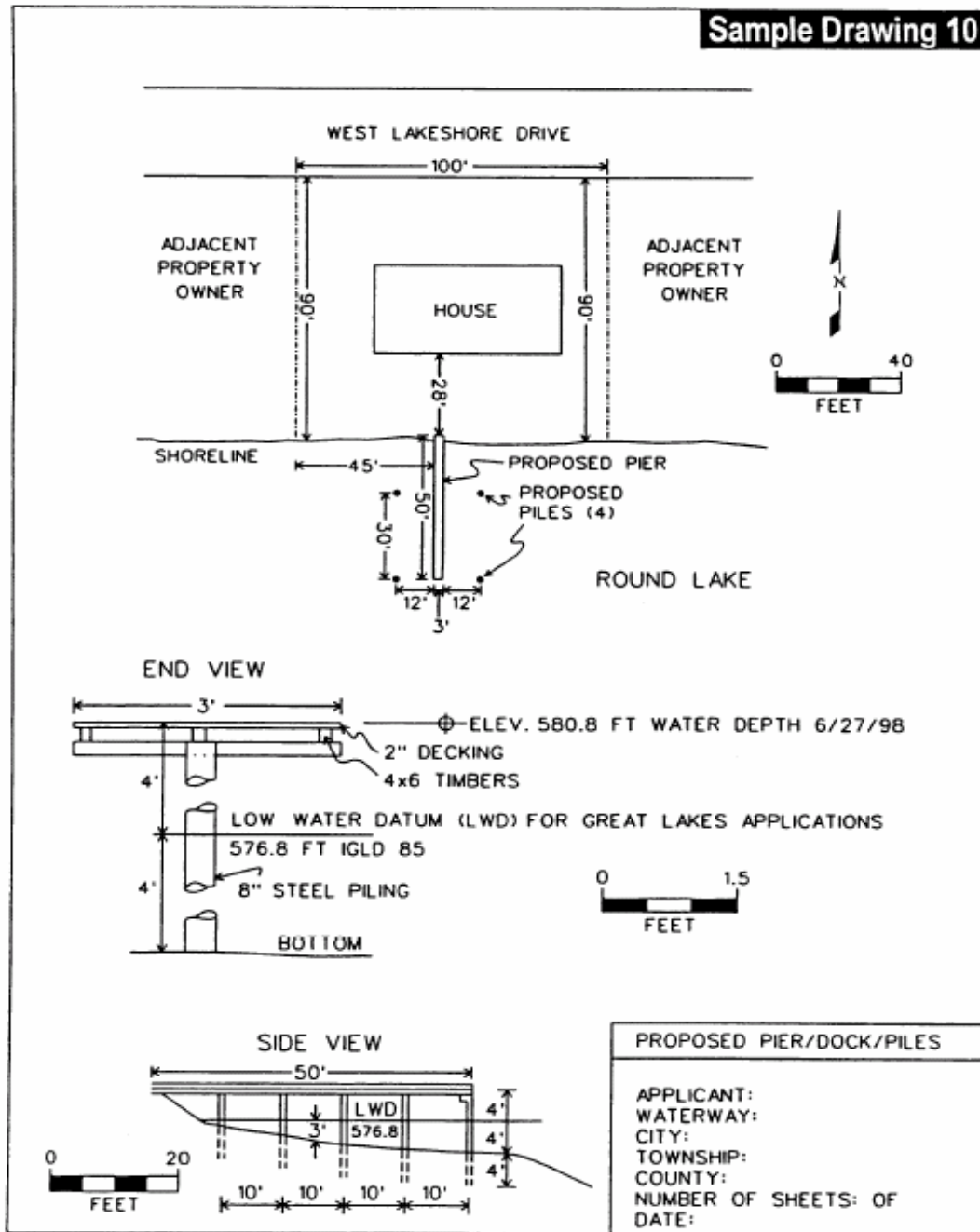
MDEQ  
LWMD  
MP/GP

Use this table to determine the criteria, fee, and requirements needed to complete your permit application

Regulatory Reference	Fee	General Criteria	Application Requirements
301. Inland Lakes & Streams *R 281.816 Rule 6 (1)(b)  &  325. Great Lakes Submerged Lands *R 322.1014 (2)(b)	\$50	<ul style="list-style-type: none"><li>• Location, number, &amp; purpose for placement is typical of projects in vicinity and watercourse involved</li><li>• All piles &amp; materials used in placement are clean and nonpolluting</li><li>• Location &amp; placement will not create an obstruction to navigation</li></ul> <p>Note: For Great Lakes Projects a conveyance may be required</p>	<ul style="list-style-type: none"><li>• Sections 1-9, &amp; 10E</li><li>• Others such as 12,13, &amp; 15 may apply</li><li>• Provide site specific project site &amp; cross section drawing</li><li>• Site location map</li><li>• Provide photos</li><li>• All maps &amp; drawings must be reproducible</li><li>• Refer to sample drawings on back or in Appendix B 1, 10, &amp; 21</li></ul> <p>Additional drawings are available in the <i>JPA Training Manual</i> at <a href="http://www.michigan.gov/jointpermit">www.michigan.gov/jointpermit</a></p>

\*Project must represent the least damaging alternative to the regulated resource. This information is to be used solely as a guide to assist individuals in filling out the joint permit application. Note that not every project will fall into the above listed fee categories. If staff determines more information and/or a higher fee is needed before the application can be considered administratively complete, you will be notified and the file will be closed. Review of the application, up to 6 months from the closure date, will continue when all of the requested information is received.

## Sample Drawing 10



Complete **Sections 10A, 10B, 12, 13, and 21** if applicable to your project.

Provide **plan view** and **cross-section** site-specific drawings adequate for detailed review, include:

- ☐ Name of waterbody, neighboring property owner information, property boundaries, and distances to adjacent property lines from proposed dock.
- ☐ Observed water elevation and date of observation (M/D/Y).
- ☐ Datum used (IGLD 85 or NGVD 29 on Section 10 Waters).
- ☐ Dimensions from fixed objects to property boundaries and the proposed pier, dock, or piles.
- ☐ Existing conditions along the shoreline for each adjacent parcel.
- ☐ Dimension of existing structures for each adjacent parcel
- ☐ Material used for construction of pier, dock, and or piles.